

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 December 2003 (31.12.2003)

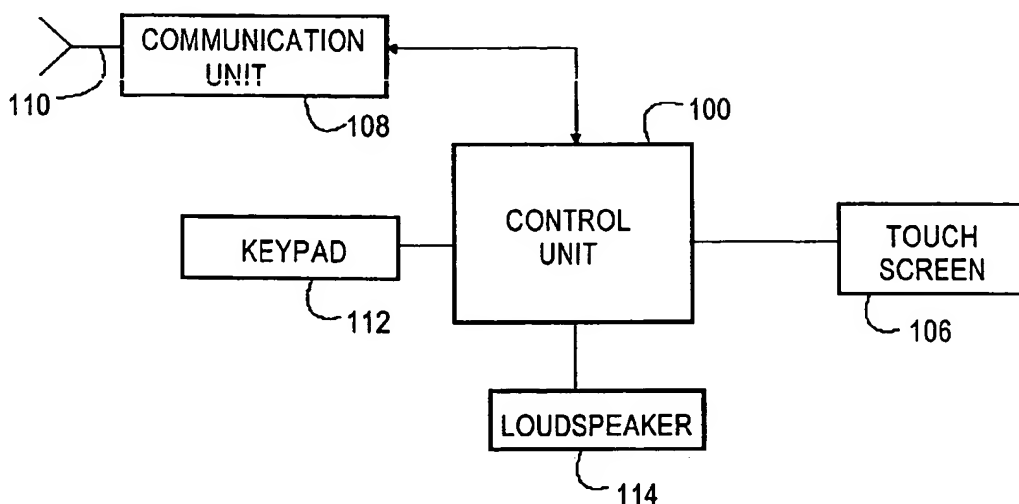
PCT

(10) International Publication Number
WO 2004/001576 A1

- (51) International Patent Classification⁷: **G06F 3/02**
- (21) International Application Number:
PCT/FI2003/000497
- (22) International Filing Date: 18 June 2003 (18.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20021239 25 June 2002 (25.06.2002) FI
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- (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO utility model (GH), ARIPO patent (GH), ARIPO utility model (GM), ARIPO patent (GM), ARIPO utility model (KE), ARIPO patent (KE), ARIPO utility model (LS), ARIPO patent (LS), ARIPO utility model (MW), ARIPO patent (MW), ARIPO utility model (MZ), ARIPO patent (MZ), ARIPO utility model (SD), ARIPO patent (SD), ARIPO utility model (SL), ARIPO patent (SL), ARIPO utility model (SZ), ARIPO patent (SZ), ARIPO utility model (TZ), ARIPO patent (TZ), ARIPO utility model (UG), ARIPO patent (UG), ARIPO utility model (ZM), ARIPO patent (ZM), ARIPO utility model (ZW), ARIPO patent (ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,

[Continued on next page]

(54) Title: METHOD OF INTERPRETING CONTROL COMMAND, AND PORTABLE ELECTRONIC DEVICE



(57) Abstract: The invention relates to a method of interpreting a control command given on a touch screen of a portable electronic device, in which method the combination of a touch on an area interpreted as a contact area and a release of the touch from the area interpreted as said same contact area is interpreted as a control command. The method comprises interpreting, once the contact area (200) has been touched, a larger contact area (202) as said same contact area for the release of the touch than the contact area before the touch.



FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO*

patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- *of inventorship (Rule 4.17(iv)) for US only*

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- *with international search report*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 03/00497

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G06F 3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0513694 A2 (SONY CORP), 19 November 1992 (19.11.92), column 2, line 28 - line 55; column 4, line 6 - column 5, line 5, figure 2, claim 1, abstract --	1-20
X	US 5618232 A (MARTIN, J.R.), 8 April 1997 (08.04.97), column 7, line 10 - column 8, line 30, figures 2-3, claim 12, abstract --	1-20
A	DE 10161924 A1* (SIEMENS AG), 24 April 2003 (24.04.03), claim 1, abstract --	1-20

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Date of the actual completion of the international search

16 Sept. 2003

Date of mailing of the international search report

18-09-2003

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Swedish Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 03/00497

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0618528 A1 (INTERNATIONAL BUSINESS MACHINES CORP), 5 October 1994 (05.10.94), claim 1, abstract -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

26/07/03

International application No.

PCT/FI 03/00497

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
EP	0513694	A2	19/11/92	CA	2067689 A,C	10/11/92
				DE	69229654 D,T	02/12/99
				JP	3123558 B	15/01/01
				JP	4333912 A	20/11/92
				KR	9505227 B	22/05/95
				US	5266931 A	30/11/93

US	5618232	A	08/04/97	AU	5426996 A	08/10/96
				WO	9629132 A	26/09/96

DE	10161924	A1	24/04/03	WO	03032141 A	17/04/03

EP	0618528	A1	05/10/94	AT	188302 T	15/01/00
				CN	1054450 B	12/07/00
				CN	1095498 A	23/11/94
				DE	69422323 D,T	21/06/00
				JP	3292267 B	17/06/02
				JP	6309102 A	04/11/94
				KR	9706397 B	28/04/97
				US	5565894 A	15/10/96
